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1 [A risk management prototype using object-oriented APL](#)



Martin Gfeller

 August 1994 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL : the language and its applications: the language and its applications APL '94**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.08 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

After a quick introduction to Financial Risk Management, I show that Object-Oriented Technology (OOT) fits well with the demands of Risk Management. I then outline the analysis, design, and implementation of a prototype system for Risk Management using both OOT and APL. I describe a Dyalog APL implementation of OOT, and conclude by wondering whether APL is really suitable for OOT.

Keywords: OO analysis and design (OOA/OOD), OO programming (OOP), OO/APL, application frameworks, dyalog APL, financial risk management, object-oriented technologies (OOT)

2 [Index configuration in object-oriented databases](#)



Elisa Bertino

 July 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.23 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In relational databases, an attribute of a relation can have only a single primitive value, making it cumbersome to model complex objects. The object-oriented paradigm removes this difficulty by introducing the notion of nested objects, which allows the value of an object attribute to be another object or a set of other objects. This means that a class consists of a set of attributes, and the values of the attributes are objects that belong to other classes; that is, the definition of a class fo ...

Keywords: index selection, physical database design, query optimization

3 [Object-oriented programming with mixins in Ada](#)



Ed Seidewitz

 March 1992 **ACM SIGAda Ada Letters**, Volume XII Issue 2

**Publisher:** ACM PressFull text available: [pdf\(866.61 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

4 A decade of modeling financial vehicles



William F. Frank, Anil Karunaratne

January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)****Publisher:** ACM PressFull text available: [pdf\(167.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

While building nine object-oriented financial systems since 1989, we evolved techniques for modeling "financial vehicles" (bonds, contracts, real estate, racehorses). We specify each particular financial vehicle and vehicle type by *combining* objects that model the fundamental ideas *behind* financial vehicles. These techniques enable installed systems to accommodate new kinds of financial vehicles. Many normal software design techniques proved ineffective.

Keywords: dimension, domain, financial instrument, inheritance, role, type

5 ET++SwapsManager: using object technology in the financial engineering domain



Thomas Eggenschwiler, Erich Gamma

October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications OOPSLA '92**, Volume 27 Issue 10**Publisher:** ACM PressFull text available: [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 DOODLE: a visual language for object-oriented databases



Isabel F. Cruz

June 1992 **ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD international conference on Management of data SIGMOD '92**, Volume 21 Issue 2**Publisher:** ACM PressFull text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we introduce DOODLE, a new visual and declarative language for object-oriented databases. The main principle behind the language is that it is possible to display and query the database with arbitrary pictures. We allow the user to tailor the display of the data to suit the application at hand or her preferences. We want the user-defined visualizations to be stored in the database, and the language to express all kinds of visual manipulations. For extendibility ...

7 Managing object oriented projects (panel session)



Laura Hill, Kenny Rubin, John Daniels, Charles Berman, James Coplien, Doug Johnson

October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95**, Volume 30 Issue 10**Publisher:** ACM Press

Full text available:  pdf(406.07 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Projects using Object Oriented technology typically fall into one of two categories: either they are run with traditional project management techniques, or they are run by "technology experts" who don't use *any* project management techniques. This panel will attempt to give out some hints as to how to be more successful managing OO projects. Questions to be addressed include:• How is Object Oriented Project Management different? Is a "paradigm shift" required for project management ...

8 Object oriented relational database with SQL interface



Behrooz Seyed-Abbassi

March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Publisher: ACM Press

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An object oriented relational database management system to support heterogeneous object classes of statistical (numeric and text), image, text and sound information is considered. By employing a user friendly interface and Structured Query Language (SQL) capability at the user level, this database with a three level architecture utilizes an extended SQL to operate on complex objects and to support database processing functions such as retrieve, join and overlay. These operations also suppo ...

9 A strategy for mapping from function-oriented software models to object-oriented software models



Joseph George, Bradley D. Carter

March 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 2

Publisher: ACM Press

Full text available:  pdf(967.06 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Because of being in transition or because of choice, many software development environments make use of both the function-oriented and object-oriented approaches in their software development process. In some cases, object-oriented and function-oriented approaches are used in the development of the same system, such as when using function-oriented analysis with object-oriented design, necessitating a transition or mapping from one model to the other. This paper reviews the issues involved in map ...

10 Contexts and metamessages in object-oriented database programming language design



Michael Caruso, Edward Sciore

June 1988 **ACM SIGMOD Record , Proceedings of the 1988 ACM SIGMOD international conference on Management of data SIGMOD '88**, Volume 17 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

VISION is an object-oriented database system currently used commercially to develop investment analysis and other large statistical applications. Characteristic of these applications, beside the standard issues of structural and computational richness, is the need to handle time, versions, and concurrency control in a manner that does not produce combinatoric complexity in object protocol. This paper describes the approach taken by VISION in addressing these issues.


11 COOL: system support for distributed programming



Rodger Lea, Christian Jacquemot, Eric Pillevesse

September 1993 **Communications of the ACM**, Volume 36 Issue 9

Publisher: ACM Press

Full text available:  [pdf\(3.45 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: concurrency, concurrent object-oriented programming


12 [Combining contracts and exemplar-based programming for class hiding and customization](#)



Victor B. Lortz, Kang G. Shin

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications OOPSLA '94**, Volume 29 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(1.80 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For performance reasons, client applications often need to influence the implementation strategies of libraries whose services they use. If an object-oriented library contains multiple service classes customized for different usage patterns, applications can influence service implementations by instantiating the customized classes that match their needs. However, with many similar service classes, it can be difficult for applications to determine which classes to instantiate. Choosing the w ...


13 [The object-oriented systems life cycle](#)



Brian Henderson-Sellers, Julian M. Edwards

September 1990 **Communications of the ACM**, Volume 33 Issue 9

Publisher: ACM Press

Full text available:  [pdf\(5.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In software engineering, the traditional description of the software life cycle is based on an underlying model, commonly referred to as the "waterfall" model (e.g., [4]). This model initially attempts to discretize the identifiable activities within the software development process as a linear series of actions, each of which must be completed before the next is commenced. Further refinements to this model appreciate that such completion is seldom absolute and that iteration ba ...

14 [Object-oriented behavioral semantics with an emphasis on semantics of large OO business specifications](#)



Haim Kilov, Bernhard Rumpe, Ian Simmonds

January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Publisher: ACM Press

Full text available:  [pdf\(760.55 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

15 [An object-oriented cell library manager](#)



Naresh K. Sehgal, C. Y. Roger Chen, John M. Acken

November 1994 **Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(469.77 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

16 Leveraging a large banking organization to object technology

Werner Karchach, Joerg Noack, Hans-Bernd Kittlaus

May 1997 **Proceedings of the 19th international conference on Software engineering****Publisher:** ACM PressFull text available: [pdf\(302.88 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**Keywords:** banking, business objects, frameworks, object technology**17 Surveying current research in object-oriented design**

Rebecca J. Wirfs-Brock, Ralph E. Johnson

September 1990 **Communications of the ACM**, Volume 33 Issue 9**Publisher:** ACM PressFull text available: [pdf\(2.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The state of object-oriented is evolving rapidly. This survey describes what are currently thought to be the key ideas. Although it is necessarily incomplete, it contains both academic and industrial efforts and describes work in both the United States and Europe. It ignores well-known ideas, like that of Coad and Meyer [34], in favor of less widely known projects. Research in object-oriented design can be divided many ways. Some research is focused on describing a design process. ...

18 Strategies for making connections with industry: Cross-functional concentrations merge IT and business concepts

Janet Wagner, Deborah Boisvert, Jean-Pierre Kuilboer, Jeffrey Keisler, Praytush Bharati

October 2005 **Proceedings of the 6th conference on Information technology education SIGITE '05****Publisher:** ACM PressFull text available: [pdf\(194.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The College of Management at UMass Boston developed a set of cross functional / cross departmental concentrations involving mixing both IT courses and management courses in the business functional areas of finance and marketing. Although interdisciplinary concentrations aren't a new concept, these particular combinations, and their placement in a traditional school of management provide an innovative and integrative educational experience for UMass Boston students. In addition, these new concent ...

Keywords: cross-functional, curriculum, education, finance, information systems, management, marketing**19 Where is Ada headed? (panel): the facts behind the myths**

Judy Kerner

December 1992 **Proceedings of the conference on TRI-Ada '92****Publisher:** ACM PressFull text available: [pdf\(536.49 KB\)](#) Additional Information: [full citation](#), [index terms](#)**20 Unifying software elements with LISP-based object-oriented technology**

Markus Fischer

August 1992 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1992 conference on**

Lisp users and vendors LUV '92, Volume VI Issue 2**Publisher:** ACM PressFull text available:  [pdf\(657.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The paper describes the use of object-oriented techniques throughout all layers of software, in the design and the implementation phase. These techniques increase the productivity of the software engineer as well as the user's benefit from the application. Several tools and their interdependencies are described and supported with some examples. The resulting methodology is needed in order to match today's needs of innovative industrial users.

Keywords: CLIM, CLOS, ODBMS, Staticce, common Lisp, object-oriented technology, software engineering

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1 [ET++SwapsManager: using object technology in the financial engineering domain](#)



Thomas Eggenschwiler, Erich Gamma

 October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications OOPSLA '92**, Volume 27 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(1.65 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Practitioner reports: Arithmetic with measurements on dynamically-typed object-oriented languages](#)



Hernán Wilkinson, Máximo Prieto, Luciano Romeo

 October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '05**

Publisher: ACM Press

 Full text available: [pdf\(245.16 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In physics, like in other sciences, formulas are specified using explicit measurements, that is, a number with its unit. The first step to determine the validity of a physics formula's evaluation is to verify that the unit of the result corresponds with the prospective unit. In software development, physics, financial and other sciences formulas are programmed using mathematical expressions based only on numbers, being the units of these numbers implicitly given by the semantics of the program o ...

Keywords: arithmetic expressions, dynamic typed, measurements, smalltalk, units

3 [Workshop 22: OO technology in large financial institutions](#)



Chris Laffra

 October 1995 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings of the 10th annual conference on Object-oriented programming systems, languages, and applications (Addendum) OOPSLA '95**, Volume 6 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(480.75 KB\)](#)

 Additional Information: [full citation](#)

4 Object-oriented programming with mixins in Ada



Ed Seidewitz

March 1992 **ACM SIGAda Ada Letters**, Volume XII Issue 2

Publisher: ACM Press

Full text available: [pdf\(866.61 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

5 Index configuration in object-oriented databases



Elisa Bertino

July 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 3 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(2.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In relational databases, an attribute of a relation can have only a single primitive value, making it cumbersome to model complex objects. The object-oriented paradigm removes this difficulty by introducing the notion of nested objects, which allows the value of an object attribute to be another object or a set of other objects. This means that a class consists of a set of attributes, and the values of the attributes are objects that belong to other classes; that is, the definition of a class fo ...

Keywords: index selection, physical database design, query optimization

6 Leveraging a large banking organization to object technology



Werner Karbach, Joerg Noack, Hans-Bernd Kittlaus

May 1997 **Proceedings of the 19th international conference on Software engineering**

Publisher: ACM Press

Full text available: [pdf\(302.88 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

Keywords: banking, business objects, frameworks, object technology

7 Managing role/permission relationships using object access types



John Barkley, Anthony Cincotta

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: [pdf\(4.62 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Object-oriented technology: getting beyond the hype



H. A. Smith, J. D. McKeen

April 1996 **ACM SIGMIS Database**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: [pdf\(878.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

These days, everyone in the Information Systems (IS) world is talking about object-oriented technology --- known as "OO" to its aficionados. The enthusiasm about OO has even reached the mainstream press (Hammonds, 1991) and executives are hearing success stories about dramatic productivity gains and "programming with lego blocks" (Hammonds, 1991). Within IS, some people are talking about an OO "revolution" that will dramatically change how IS does its work and which has the potential to eliminat ...

9 Object-oriented programming in Smalltalk and ADA



Ed Seidewitz

December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87**, Volume 22 Issue 12

Publisher: ACM Press

Full text available: [pdf\(1.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Though Ada and Modula-2 are not object-oriented languages, an object-oriented viewpoint is crucial for effective use of their module facilities. It is therefore instructive to compare the capabilities of a modular language such as Ada with an archetypal object-oriented language such as Smalltalk. The comparison in this paper is in terms of the basic properties of encapsulation, inheritance and binding, with examples given in both languages. This comparison highlights the strengths and weakn ...

10 Riverbank Financial: balancing the pendulum

Kathryn Brohman, Sid L. Huff, Duncan Copeland

December 1998 **Proceedings of the international conference on Information systems**

Publisher: Association for Information Systems

Full text available: [pdf\(14.70 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

11 An object-oriented model of access control based on role



Yan Han, Liu Fengyu, Zhang Hong

March 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [pdf\(607.02 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

At present, majority access control models mainly deal with data-protection at the back-end of applications. However, they are not applicable for large and complex multi-user applications. Though Object Technology has turned into one of the mainstream approaches for large and complex applications development, it still lacks a general model of application-level access control. While the existing models of role-based access control could simplify privilege management, they neglect the dynamic feat ...

Keywords: access control, application development, modeling, object-oriented, role, security management

12 BPR success or failure?: a business process reengineering project in the financial services industry

Melissa A. Larsen, Michael D. Myers

December 1997 **Proceedings of the eighteenth international conference on Information systems**

Publisher: Association for Information Systems

Full text available: [pdf\(68.00 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)


Keywords: business process reengineering, case study, financial sector, interpretivist perspective

13 Skilled financial planning: the cost of translating ideas into action

F. J. Lerch, M. M. Mantei, J. R. Olson

March 1989 **ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems: Wings for the mind CHI '89**, Volume 20 Issue SI

Publisher: ACM Press

Full text available:  [pdf\(582.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We use GOMS models to predict error rates and mental times for translating financial concepts into equations in two widely used interface representations. The first of these, common to spreadsheet packages, is characterized by non-mnemonic naming and absolute referencing of variables. The second, common to non-procedural command-driven software, is characterized by mnemonic naming conventions and relative referencing of variables. These predictions were tested in an experiment using experie ...



14 UniSQL's next-generation object-relational database management system

Albert D'Andrea, Phil Janus

September 1996 **ACM SIGMOD Record**, Volume 25 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(485.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Object-Relational DBMSs have been receiving a great deal of attention from industry analysts and press as the next generation of database management systems. The motivation for a next generation DBMS is driven by the reality of shortened business cycles. This dynamic environment demands fast, cost-effective, time-to-market of new or modified business processes, services, and products. To support this important business need, the next generation DBMS must: 1. leverage the la ...



15 Financial Viewpoints: using point-of-view to enable understanding of information

Lisa Strausfeld

May 1995 **Conference companion on Human factors in computing systems**

Publisher: ACM Press

Full text available:  [pdf\(247.66 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



16 Objects and databases (panel)

Thomas Atwood, Jnan Dash, Jacob Stein, Michael Stonebraker, Mary Loomis

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications OOPSLA '94**, Volume 29 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(243.04 KB\)](#) Additional Information: [full citation](#), [index terms](#)



17 Task force report and recommendations

January 2000 **ACM SIGMIS Database**, Volume 31 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(4.42 MB\)](#) Additional Information: [full citation](#), [index terms](#)




18 The ROMPER system: responding to object-related misconceptions using perspective

Katheleen F. McCoy

July 1986 **Proceedings of the 24th annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:  pdf(818.43 KB)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As a user interacts with a database or expert system, s/he may reveal a misconception about the objects modeled by the system. This paper discusses the ROMPER system for responding to such misconceptions in a domain independent and context sensitive fashion. ROMPER reasons about possible sources of the misconception. It operates on a model of the user and generates a cooperative response based on this reasoning. The process is made context sensitive by augmenting the user model with a new notion ...

19 [Simulating the impact of monetary and fiscal policy activities on the results of corporate financial decisions](#)

Maclyn L. Clouse

January 1978 **Proceedings of the 10th conference on Winter simulation - Volume 1**

Publisher: IEEE Press

Full text available:  pdf(369.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses a simulation model designed for use in graduate finance courses. The model illustrates that changes in the financial and economic environment of the firm will affect the results of the firm's financial decisions. The first part of the model determines the financial and economic environment of the firm, using monetary and fiscal policy variables as inputs. The second part of the model combines environment variables from the first part of the model with financial decision ...


20 [Using medical objects: their structure, transmission, storage and usage](#)



Frank M. Groom

January 1995 **ACM SIGBIO Newsletter**, Volume 15 Issue 1

Publisher: ACM Press

Full text available:  pdf(403.95 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The medical community has traditionally utilized a common set of materials for diagnosis, documentation, and communicating about patients. These materials tend to be independently created, separately analyzed, but are used by medical personnel as an integrated set to deal with a particular patient. Included in such materials are patient history, problem symptoms, diagnostic imaging (X-Rays, MRI, PET, bone scans), patient logs, hospital specialist analysis, and consulting physician conclusions, t ...

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